

Name: Mohammad Javad Nategh

Date of Birth: Jan. ۱۹۵۳

Birth Land: Sari, Iran

Residence: Tehran, Iran

Present Affiliation: Tarbiat Modares University, Mechanical Engineering Department, Tehran, Iran

Academic Position: Professor in Mechanical Engineering

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Education

B.Sc.: Mechanical Engineering, Solid Mechanics, Sharif University of Technology, Tehran, Iran, ۱۹۷۶

M.Sc.: Mechanical Engineering, Solid Mechanics, Sharif University of Technology, Tehran, Iran, ۱۹۷۹

Ph.D.: Mechanical Engineering, Manufacturing Engineering, Birmingham University, Birmingham, UK, ۱۹۸۸

Industrial Careers: ۲۸ Years of Activity in Industry (from ۱۹۷۶ to ۲۰۰۴)

Part of Industrial Career:

Chairman and Managing Director of Tabriz Machine Tool Manufacturing Co. (with about ۲۰۰۰ employees);

Chief Executive Officer for Technology Development in Heavy Industries;

Managing Director of Diesel Engine Manufacturing Co.;

Member of Directing Board of Tractor Manufacturing Co. (with about ۵۰۰۰ employees);

General Manager for Feasibility Studies in the Ministry of Heavy Industries;

Vice Deputy Minister of the Ministry of Heavy Industries in Planning and Programming Department;

Vice Deputy Minister of Industries in Research and Training Department;

Chief Executive Officer for Development of Research Centers in IDRO;

Manager of Azerbaijan Industrial Zone;

President of Azerbaijan Council for Production Planning;

Design and Process Planning Engineer in Tabriz Machine Tool Manufacturing Co.

Academic Career: ۱۸ Year Full Time Activity in University (from ۲۰۰۴ to ۲۰۲۲)

Lecture Subjects, Delivered in Graduate and Undergraduate Courses

Finite Element Method; Metal Forming; Manufacturing Processes; Design of Machine Elements; Design of Structure and Elements of Machine Tools; Vibration of Machine Tools; Advanced Jigs and Fixtures Design; Design of Forging Dies; History and Philosophy of Science and Technology

Research Subjects

Ultrasonic Vibration Assisted Machining; Development of Parallel Kinematics (Hexapod) Machine Tools; Chatter and Dynamic Instability in Machining Processes; Computer Aided Process Planning; Computer Aided Jigs and Fixture Design; Application of Optimization Methods, Artificial Intelligence, Expert System, and Deep Learning in Process Planning and Fixture Design; Collaboration Engineering; Rotary Forging Process and Machine; Rotary Forging Machine with Parallel Kinematics; History and Philosophy of Science and Engineering

Thesis Supervision

PhD: ۲۰ Dissertations

MSc: ۶۲ Thesis

BSc: ۱۳ Projects

Patents

Orbital Forging Machine, Tehran, Patent No. ۲۰۱۰۶, ۲۷ August ۱۹۹۴

Ultrasonic Vibration Assisted Turning, Tehran, Patent No. ۴۳۶۸۴, ۲۹ October ۲۰۰۷

Hexapod Six-Axis Milling Machine, Patent No. ۶۰۹۶۴, ۴ August ۲۰۱۰

Publications

Journal Papers and Encyclopedia Entries: ۹۲ Papers

Conference Papers: ۷۲ Papers

A list of these papers is presented in the Appendix.

Books

۱. Mohammad Javad Nategh, Technological Evolution of Machine Tools from the Ancient Times up to the Advent of Numerical Control, Tarbiat Modares University Press, Tehran, ۲۰۲۰, in Persian
۲. Mohammad Javad Nategh, Evolution of Gears and Gear Cutting Machine Tools, Tarbiat Modares University Press, Tehran, ۲nd Edition, ۲۰۲۰, in Persian
۳. Mohammad Javad Nategh, Machine Tools' Jigs and Fixtures Design, Tarbiat Modares University Press, Tehran, ۳rd Edition, ۲۰۲۰, in Persian (*Winner of the 26th I.R. Iran's National Book Award, 2009*)
۴. Al-Jazari, Al-Jami' Bain Al-'Ilm wal-Amal Al-Nafi' fi Sina'at Al-Hiyal, Translated by Mohammad Javad Nategh, Hamid Reza Nafisi, Saeed Rafatjah, Iran University Press, Tehran, ۲۰۰۲, in Persian

Editorship

١. Chief Editor, Modares Mechanical Engineering, Tarbiat Modares University, <https://mme.modares.ac.ir/>
٢. Editor, Tarikh-e Elm, Iranian Journal for the History of Science, Institute for the History of Science, University of Tehran, <https://jih.s.ut.ac.ir/>
٣. Advisory Board, Miras-e Elmi-ye Eslam va Iran, Semiannual Journal on the Scientific Heritage of Islam and Iran, <http://www.mirasmaktoob.ir/fa/news/١١٤٤٢>

Awards

Annual Promotion for research activities and as Distinguished Researcher in the University: Four Times

Awards for Promoting Students Social and Cultural Activities: Three Times

Winner of the ٣٦th I.R. Iran's National Book Award, ٢٠٠٩ for Publishing the Book (Machine Tools' Jigs and Fixtures Design)

Winner of the Best Paper Prize in the Economic Reconstruction of Iran Seminar, ١٩٨٩

Academic Executive Positions and Other Activities

Partial List:

- Vice-Chancellor for Cultural and Social Activities, Tarbiat Modares University, ٢٠١٧-٢٠٢١.
- President of the Mechanical Engineering Division in Faculty of Engineering, Tarbiat Modares University.
- Manager of Manufacturing Engineering Group, Tarbiat Modares University.
- Member of Committee for Establishing Postgraduate Group of Manufacturing Engineering, Tarbiat Modares University.
- Member of Trustee Board of Mazandaran University of Science and Technology.
- Chairman of the ١st Conference on Manufacturing Engineering in Heavy Industries, Amir Kabir University of Technology, ١٩٩٣.
- Chairman of the ١st and ٢nd CAMMT (Conference of Advanced Machining and Machine Tools, November ٣-٤, Tehran, Iran) , Tarbiat Modares University, ٢٠١٥ and ٢٠٢٢.
- Honorary Member of New York Academy of Science, ١٩٩٨-١٩٩٩.

Appendix

List of Journal Papers and Encyclopedia Entries

١. D. Manafi, M. J. Nategh, Optimization of Setup Planning by Combined Permutation-Based and Simulated Annealing Algorithms, Arabian Journal for Science and Engineering, pp. ١-١٢, ٢٠٢٢. <https://doi.org/10.1007/s13379-022-07709-7>
٢. N. Mohammadi, MJ Nategh, Development of a deep learning machining feature recognition network for recognition of four pilot machining features. The International Journal of Advanced Manufacturing Technology, Vol. ١٢١, Issue ١١, pp. ٧٤٥١-٧٤٦٢, ٢٠٢٢.

۳. Bahman Ghorbani, Mohammad Javad Nategh and Mohammad Reza Karafi, An investigation on the material removal mechanism, surface porosity, and surface integrity in ultrasonic vibration assisted turning of porous stainless steel 316L , *J Engineering Manufacture, IMech-E*, Vol. ۲۳۶, Issue ۱۳, pp. ۱۷۸۲-۱۷۹۲, ۲۰۲۲.
۴. M. Sohrabifard, M. J. Nategh, An Experimental Approach for Determination of Locators Reaction Forces in Milling Fixtures, *Amirkabir Journal of Mechanical Engineering*, Vol. ۵۳, Issue ۱۲, pp. ۱۴۰۷-۱۴۱۰, ۲۰۲۲.
۵. M. Fasihi, M. J. Nategh, The Application Effect of Induction Heat and Ultrasonic Vibrations on Surface Quality and Cutting force of Machined Work piece in Hybrid Machining, *Mechanical Engineering, Tabriz University*, Vol. ۵۱, Issue ۹۹, pp. ۱۲۵-۱۳۴, ۲۰۲۲.
۶. D. Manafi, M. J. Nategh, Integrating the Setup Planning with Fixture Design Practice by Concurrent Consideration of Machining and Fixture Design Principles, *International Journal of Production Research*, Vol. ۵۹, Issue ۹, pp. ۲۶۴۷-۲۶۶۶, ۲۰۲۱.
۷. Davood Manafi, Mohammad Javad Nategh, Reducing Search Space of Optimization Algorithms for Determination of Machining Sequences by Consolidating Decisive Agents, *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, Vol. ۲۳۴, Issues ۶-۷, pp. ۱۰۵۷-۱۰۶۸, ۲۰۲۰.
۸. Mohammad Javad Nategh, Hadi Parvaz, Development of computer aided clamping system design for workpieces with freeform surfaces, *Computer-Aided Design*, Vol. ۹۵, pp ۵۲-۶۱, ۲۰۱۸
۹. Hadi Parvaz, Mohammad Javad Nategh, Development of locating system design module for freeform workpieces in computer-aided fixture design platform, *Computer-Aided Design*, Vol. ۱۰۲, pp ۱-۱۴, ۲۰۱۸
۱۰. Soleimanimehr, M. J. Nategh, A. Forouzan Najafabadi, A. Zarnani, The analysis of the Timoshenko transverse vibrations of workpiece in the ultrasonic vibration-assisted turning process and investigation of the machining error caused by this vibration, *Precision Engineering*, Vol. ۵۴, pp ۹۹-۱۰۸, ۲۰۱۸.
۱۱. E. Rouhani, M.J. Nategh, An elastokinematic solution to the inverse kinematics of microhexapod manipulator with flexure joints of varying rotation center, *Mechanism and Machine Theory*, Vol. ۹۷, pp ۱۲۷-۱۴۰, ۲۰۱۶
۱۲. D. Manafi, M.J. Nategh and H. Parvaz, Extracting the manufacturing information of machining features for computer-aided process planning systems, *Proc. IMechE Part B: J Engineering Manufacture*, Vol. ۲۳۱, No. ۱۲, pp ۲۰۷۲-۲۰۸۳, ۲۰۱۶
۱۳. D. Manafi, M. J. Nategh, A procedure for planning acyclic setups on the basis of simultaneous sequencing of setups and features, *Int. J. Adv. Manuf. Technol.*, Vol. ۸۴, pp ۶۷۹-۶۹۰, ۲۰۱۶
۱۴. H. Parvaz, M. J. Nategh, Stability analysis of free-form workpieces in fixtures, *Modares Mechanical Engineering*, Vol. ۱۶, No. ۲, pp. ۲۴۵-۲۵۲, ۲۰۱۶ (in Persian)
۱۵. S. V. Hosseini, M. J. Nategh, A Feasibility Study on Performing Rotary Forging Process by Hexapod Table and Estimation of Forming Load for a Cylindrical Workpiece, *Modares Mechanical Engineering*, Vol. ۱۶, No. ۶, pp. ۴۱-۵۱, ۲۰۱۶ (in Persian)

۱۶. Hossein Shahmohammadi Dermani, Mohammad Javad Nategh, Upgrading the CNC system of hexapod machine tool by adding the five axis tool radius compensation, *Modares Mechanical Engineering*, Vol. ۱۶, No. ۷, pp. ۹۳-۹۸, ۲۰۱۶ (in Persian)
۱۷. Hadi Parvaz^۱, Mohammad Javad Nategh, Development of an efficient method of jamming prediction for designing locating systems in computer-aided fixture design, *Int. J. Adv. Manuf. Technol.*, Vol ۱۹, No. ۹, pp ۲۴۵۹-۲۴۷۱, ۲۰۱۶.
۱۸. A. Rabbani, M. J. Nategh, D. Karimi, Machining Free Form Surfaces with Hexapod Machine Tool, *Modares Mechanical Engineering*, Vol. ۱۶, No. ۸, pp. ۳۹۵-۴۰۰, ۲۰۱۶ (in Persian)
۱۹. Hadi Parvaz, Mohammad Javad Nategh, Design of clamping system for workpiece with freeform geometry, *Modares Mechanical Engineering*, Vol. ۱۶, No. ۹, pp ۱۹۵-۲۰۶, ۲۰۱۶ (in Persian)
۲۰. M. Shankayi, M. J. Nategh, Stability Analysis of the Vibration-Assited Turning Process, *Modares Mechanical Engineering*, Vol. ۱۶, No. ۱۰, pp ۷۷-۸۴, ۲۰۱۶ (in Persian)
۲۱. Davoud Karimi, Contour maps for developing optimal toolpath and workpiece setup in hexapod machine tools by considering the kinematics nonlinearity, *Proceedings of the Institution of Mechanical Engineers Part B-Journal of Engineering Manufacture*, Vol. ۲۳۰, No. ۹, pp ۱۵۷۲-۱۵۸۳, ۲۰۱۶.
۲۲. E. Rouhani Esfahani, M.J. Nategh, Instantaneous Center of Rotation of Flexure Joints and Velocity Kinematic Analysis of Microhexapod Using Screw Theory, *Modares Mechanical Engineering*, Vol. ۱۵, No. ۳, pp. ۱۷۳-۱۸۰, ۲۰۱۵ (In Persian).
۲۳. M. Shankayi, M. J. Nategh, H. Soleimanimehr, The Influence of Vibration Parameters on the Stability of Turning Process in Time Domain (Technical Note), *The Iranian Journal of Sounds*, Vol. ۱, Issue ۲, pp. ۴۸-۵۲, ۲۰۱۵, (in Persian).
۲۴. M. J. Nategh, M. Karimi, Investigating the Originality of Persian Manuscripts on Crane, *History of Science*, Vol. ۱۲, Issue ۱, pp. ۹۵-۱۱۳, ۲۰۱۵, (in Persian).
۲۵. E. Rouhani and M.J. Nategh, Workspace, dexterity and dimensional optimization of microhexapod, *Assembly Automation*, Vol. ۳۵, No. ۴, pp ۳۴۱-۳۴۷, ۲۰۱۵
۲۶. D. Manafi, M. J. Nategh, Investigation of Geometrical Rules and Introducing a Method Based on Permutation for Sequencing of Machining Features for Prismatic Parts, *Modares Mechanical Engineering*, Vol. ۱۵, No. ۱۰, pp. ۳۱۱-۳۱۹, ۲۰۱۵, (In Persian).
۲۷. Davoud Karimi, Mohammad Javad Nategh, Kinematic nonlinearity analysis in hexapod machine tools: Symmetry and regional accuracy of workspace, *Mechanism and Machine Theory* Vol. ۷۱, pp ۱۱۵-۱۲۵, ۲۰۱۴.
۲۸. Davoud Karimi, Mohammad J Nategh, Development of a novel adaptive non-uniform rational basis spline interpolator with limited kinematic error for hexapod machine tools, *Proc. IMechE Part B: J Engineering Manufacture*, Vol. ۲۲۸, No. ۳, pp ۳۱۹-۳۲۷, ۲۰۱۴.
۲۹. B. Gholamzade, M. J. Nategh, H. Soleimanimehr, M. Shankayi, An Investigation on the Effect of Vibrational Parameters on Tool Temperature in Ultrasonic Assisted Turning, *The Space Mechanics*, Vol. ۹, Issue ۳, pp. ۹-۱۷, ۲۰۱۴, (in Persian).
۳۰. Mohammad Reza Chalak Qazani, Siamak Pedrammehr, Mohammad Javad Nategh, A Study on Motion of Machine Tools' Hexapod Table on Freeform Surfaces with Circular Interpolation, *Int. J. Adv. Manuf. Technol.*, Vol. ۷۵, pp ۱۷۶۳-۱۷۷۱, ۲۰۱۴.

۳۱. Hadi Parvaz, Mohammad Javad Nategh, A pilot framework developed as a common platform integrating diverse elements of computer aided fixture design, International Journal of Production Research, Vol. ۵۱, No. ۲۲, pp ۶۷۲۰-۶۷۳۲, ۲۰۱۳.
۳۲. H. Jamshidi, M.J. Nategh, Theoretical and experimental investigation of the frictional behavior of the tool-chip interface in ultrasonic-vibration assisted turning, International Journal of Machine Tools & Manufacture, Vol. ۶۵, pp ۱-۷, ۲۰۱۳
۳۳. S. Amini, M. J. Nategh, One directional and elliptical ultrasonic vibration assisted cutting of IN۷۳۸, Modares Mechanical Engineering, Vol. ۱۲, No. ۶, pp. ۱۱۷-۱۲۳, ۲۰۱۳ (In Persian)
۳۴. S. Amini, M. J. Nategh, A. Abdollah, Vibration Cutting and Elliptical Ultrasonic Vibration Assisted Turning of In۷۳۸, Journal of Applied and Computational Sciences in Mechanics, Vol. ۲۳, No., pp ۱۷-۲۰, ۲۰۱۳
۳۵. M. Mehrara and M.J. Nategh, Analytical- Numerical Solution of Plastic Bending of a Metal Sheet on Elastic Foundation, ۲۰۱۳
۳۶. S. Amini and M J Nategh, One-Directional and Elliptical Ultrasonic Vibration Assisted Turning of Ud۵۰۰ Work-pieces, Amirkabir Mechanical Engineering, Vol. ۴۴, No. ۲, pp ۹۳-۱۰۱, ۲۰۱۳ (in Persian)
۳۷. H. Soleimanimehr, M.J. Nategh, H. Jamshidi, Mechanistic model of work-piece diametrical error in conventional and ultrasonic assisted turning, Advanced Materials Research, Vol. ۴۴۵, ۹۱۱-۹۱۶, ۲۰۱۲.
۳۸. H. Parvaz, M. J. Nategh, A Multi-TAD Framework for Recognizing Machining Features Using Hint Based Recognition Algorithm, Advanced Materials Research, pp ۹۰۵-۹۱۰, Vol. ۴۴۵, ۲۰۱۲
۳۹. Hadi Parvaz, Mohammad Javad, Nategh, Modeling the Hydrodynamic Lubrication Function of Scrapings in Machine Tool Slideways, Advanced Materials Research, Vol. ۴۴۵, pp ۱۰۳۵-۱۰۴, ۲۰۱۲
۴۰. H. Razavi, M. J. Nategh, H. Soleimanimehr, An investigation of lateral surface hardness and related cutting forces in one directional Ultrasonic-Vibration Assisted Turning, Advanced Materials Research Vol. ۴۴۵, pp ۱۰۴۱-۱۰۴۶, ۲۰۱۲
۴۱. M. J. Nategh, H. Razavi, A. Abdullah, Analytical modeling and experimental investigation of ultrasonic-vibration assisted oblique turning, part I: Kinematics analysis, International Journal of Mechanical Sciences, Vol. ۶۳, pp ۱-۱۱, ۲۰۱۲.
۴۲. H. Razavi, M. J. Nategh, A. Abdullah, Analytical modeling and experimental investigation of ultrasonic-vibration assisted oblique turning, part II: Dynamics analysis, International Journal of Mechanical Sciences, Vol. ۶۳, pp ۱۲-۲۵, ۲۰۱۲.
۴۳. H. Razavi, M. J. Nategh, A. Abdullah, Analytical modeling and experimental investigation of ultrasonic-vibration assisted oblique turning, part III: Experimental investigation, International Journal of Mechanical Sciences, Vol. ۶۳, pp ۲۶-۳۶, ۲۰۱۲.
۴۴. M. Mehrara, M. J. Nategh, Analytical-Numerical Solution Bending Problem of Thin Plates in Rubber Pad Bending, Key Engineering Materials, Vol. ۴۷۳, pp ۱۹۰-۱۹۷, ۲۰۱۱
۴۵. M. Mehrara, M. J. Nategh, Analysis of Continuous Bending of Thin Plates in Rubber Pad Bending, Key Engineering Materials, Vol. ۴۷۳, pp ۱۴۵-۱۵۰, ۲۰۱۱

۴۶. M. Mehrara, M. J. Nategh, Analytical solution to the elastic bending of long and rectangular thin plate resting on rubber foundation, Proc. IMechE, Part C: J. Mechanical Engineering Science, Vol. ۲۲۶, pp ۱۱۸۶-۱۱۹۷, ۲۰۱۱
۴۷. H. Soleimanimehr, M.J. Nategh, S. Amini, Analysis of Diametrical Error of Machined Workpieces in Ultrasonic Vibration Assisted Turning, Advanced Materials Research, Vols. ۲۶۴-۲۶۵, pp ۱۰۷۹-۱۰۸۴, ۲۰۱۱
۴۸. Davoud Karimi and Mohammad Javad Nategh, "A Statistical Approach to the Forward Kinematics Nonlinearity Analysis of Gough-Stewart Mechanism," *Journal of Applied Mathematics*, vol. ۲۰۱۱, Article ID ۳۹۳۰۷۲, ۱۷ pages, ۲۰۱۱. doi:۱۰.۱۱۵۵/۲۰۱۱/۳۹۳۰۷۲
۴۹. M. Mehrara, M.J. Nategh, Analysis of continuous sheet bending on elastic foundation, Aerospace Mechanics Journal, ۲۰۱۱ (in Persian).
۵۰. M Mehrara and M J Nategh, Analysis of the elastic and plastic roll bending of sheet metal on a rubber pad, Proc. IMechE, Part B: J. Engineering Manufacture, Vol. ۲۲۶, pp ۷۲۲-۷۳۶, ۲۰۱۱.
۵۱. H. Razavi, M. J. Nategh, A. Abdullah, H. Soleimanimehr, Analytical and Experimental Analysis of the Kinematics of Relative Motion between the Cutting Tool and Workpiece in Ultrasonic-Vibration Assisted Turning, An Investigation on the Kinematics of Tool-Workpiece's Relative Movement in One-Directional Ultrasonic-Vibration Assisted Turning, Modares Mechanical Engineering, Vol. ۱۱, No. ۱, pp ۱۰۳-۱۱۵, ۲۰۱۱ (in Persian)
۵۲. H. Soleimanimehr, M. J. Nategh, Machining Error due to Spring-back of Work-piece in Conventional and Ultrasonic-Vibration Assisted Turning, Modares Mechanical Engineering, Vol. ۱۱, No. ۳, pp ۲۷-۴۲, ۲۰۱۱ (in Persian)
۵۳. Saeid Amini, Eiji Shamoto, Norikazu Suzuki, Mohammad Javad Nategh, FE Analysis of One-Directional and Elliptical Vibration Cutting Processes, Int. J. of Automation Technology, Vol. ۴, No. ۳, pp ۲۵۲-۲۵۸, ۲۰۱۰.
۵۴. D. Karimi, M. J. Nategh, A Study on the Quality of Hexapod Machine Tool's Workspace, International Journal of Aerospace and Mechanical Engineering, Vol. ۴, No. ۳, pp. ۱۶۶-۱۷۱, ۲۰۱۰.
۵۵. M. M. Agheli, M. J. Nategh, Identifying the Kinematic Parameters of Hexapod Machine Tool, International Journal of Aerospace and Mechanical Engineering, Vol. ۴, No. ۳, pp. ۱۴۹-۱۵۴, ۲۰۱۰.
۵۶. H. Soleimanimehr, M. J. Nategh, S. Amini, Modeling of Surface Roughness in Vibration Cutting by Artificial Neural Network, International Journal of Aerospace and Mechanical Engineering, Vol. ۴, No. ۳, pp. ۱۶۰-۱۵۵, ۲۰۱۰.
۵۷. M. J. Nategh, S. Amini and H. Soleimanimehr, Modeling the Force, Surface Roughness and Cutting Temperature in Ultrasonic Vibration-Assisted Turning of Al₇₀V₃₀, Advanced Materials Research, Vols. ۸۳-۸۶, pp ۳۱۵-۳۲۵, ۲۰۱۰.
۵۸. H. Soleimanimehr, M. J. Nategh and S. Amini, Prediction of Machining Force and Surface Roughness in Ultrasonic Vibration-Assisted Turning Using Neural Networks, Advanced Materials Research, Vols. ۸۳-۸۶, pp ۳۲۶-۳۳۴, ۲۰۱۰.
۵۹. M. Shankayi, M. J. Nategh, H. Soleimanimehr, Machining Jigs and Fixtures Planning with the Aid of Expert Systems, Manufacturing Technology, No. ۳, pp ۱۳-۱۸, ۲۰۱۰ (in Persian)

٦٠. M. J. Nategh, S. Amini, H. Soleimanimehr, Modeling the force surface roughness and cutting temperature in ultrasonic vibration-assisted turning of $Al_{70}Cu_{30}$, *Advanced Materials Research*, Vol. ٨٣, pp ٣١٥-٣٢٥, ٢٠١٠.
٦١. M. M. Agheli and M. J. Nategh, Identifying the kinematic parameters of hexapod machine tool, *International Journal of Aerospace and Mechanical Engineering*, Vol. ٤, No. ٣, pp ١٤٩-١٥٤, ٢٠١٠.
٦٢. S. Amini, M. J. Nategh, A. Abdollah, An Investigation on the Machining Force in Ultrasonic-Vibration Assisted Turning of $Al_{70}Cu_{30}$ Workpiece, *Majlesi Journal of Mechanical Engineering*, Vol. ٣, No. ٤, pp ٤٣-٥١, ٢٠١٠ (in Persian).
٦٣. Mahboubkhah, M. J. Nategh and S. Esmailzadeh Khadem, Inverse dynamic analysis of hexapod machine tool table and comparative analysis of influential forces, *Modares Technical and Engineering J.*, No. ٣٧, pp ٢٩-٣٨, ٢٠١٠ (in Persian).
٦٤. Mahboubkhah, M. J. Nategh and S. Esmailzadeh Khadem, A comprehensive study on the free vibration of machine tool's hexapod table, *Int. J. Advanced Manufacturing Technology*, Vol. ٤٠, pp ١٢٣٩-١٢٥١, ٢٠٠٩.
٦٥. M. J. Nategh, Concurrent engineering planning on the basis of forward and backward effects of manufacturing processes, *International journal of Production Research*, Vol. ٤٧, No. ١٨, pp ٥١٦١-٥١٤٧, ٢٠٠٩.
٦٦. S. Amini, M. J. Nategh and H. Soleimanimehr, Application of design of experiments for modelling surface roughness in ultrasonic vibration turning, *Proc. IMechE Vol. ٢٢٣ Part B: J. Engineering Manufacture*, pp ٦٥٢-٦٤١, ٢٠٠٩.
٦٧. M. J. Nategh and M. M. Agheli, A total solution to kinematic calibration of hexapod machine tools with a minimum number of measurement configurations and superior accuracies, *International Journal of Machine Tools & Manufacture*, , Vol. ٤٩, pp ١١٥٥-١١٦٤, ٢٠٠٩.
٦٨. M. J. Nategh, S. Amini, H. Soleimanimehr, M. H. Sadeghi and A. Abdollah, A machining force model developed for ultrasonic vibration-assisted turning through statistical analysis of influential parameters, *Mechanical and Aerospace Engineering Journal*, Vol. ٤, No. ٤, pp ٨٣-٩١, ٢٠٠٩.
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